

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error	Errors
1	BRS	L1	105	clostridia	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:42			0
2	BRS	L2	641	botulinum	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:42			0
3	BRS	L3	14645	lectin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:42			0
4	BRS	L4	754	lectin same galactose or galactosyl or acetyl galactosamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:43			0
5	BRS	L5	2	(1 or 2) same	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:52			0
6	BRS	L6	11	(1 or 2) same	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:50			0
7	BRS	L7	3	(1 or 2) same (conjugate or covalent\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:51			0
8	BRS	L8	3558	erythrina or glycine adj max) or (arachis adj hypogaea) or (bandeirea adj simplicifolia)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:52			0
9	BRS	L9	146	3 same	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:52			0
10	BRS	L10	0	(1 or 2) same	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:53			0
11	BRS	L11	68	lectin same (arachis adj hypogaea)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:53			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
12	BRS	L12	0	(1 or 2) same 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:53			0
13	BRS	L13	12892	light adj ch: in	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:54			0
14	BRS	L14	230	translocation adj domain	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:54			0
15	BRS	L15	10	(light adj ch: in) same (translocation adj domain) same (clostridial adj neurotoxin ) or (botulinum :dj (toxin or	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:54			0
16	BRS	L16	0	3 same 15	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:55			0
17	BRS	L17	437335	control\$4 same (transmission or pain)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:57			0
18	BRS	L18	1	17 same (5 or 6)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:58			0
19	BRS	L19	63	duggan adj r ichael.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:58			0
20	BRS	L20	1	chaddock ad john.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:59			0
21	BRS	L21	1	(19 or 20) ard 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/05 10:59			0

FILE 'MEDLINE' ENTERED AT 11:03:45 ON 05 JUL 2003

FILE 'CAPLUS' ENTERED AT 11:03:45 ON 05 JUL 2003  
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FILE 'BIOSIS' ENTERED AT 11:03:45 ON 05 JUL 2003  
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'EMBASE' ENTERED AT 11:03:45 ON 05 JUL 2003  
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FILE 'SCISEARCH' ENTERED AT 11:03:45 ON 05 JUL 2003  
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FILE 'AGRICOLA' ENTERED AT 11:03:45 ON 05 JUL 2003

=> s clostridial neurotoxin  
L1 915 CLOSTRIDIAL NEUROTOXIN

=> s botulinum (w) (toxin or neurotoxin)  
L2 21405 BOTULINUM (W) (TOXIN OR NEUROTOXIN)

=> s lectin  
L3 150439 LECTIN

=> s l3 (p) (galactose or galactosyl or acetylgalactosamine)  
L4 16021 L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)

=> s (l1 or l2) (p) l4  
L5 1 (L1 OR L2) (P) L4

=> d l5 1 ibib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:249106 CAPLUS

DOCUMENT NUMBER: 130:276767

TITLE: Conjugates of \*\*\*galactose\*\*\* -binding  
\*\*\*lectins\*\*\* and \*\*\*clostridial\*\*\*  
\*\*\*neurotoxins\*\*\* as analgesics

INVENTOR(S): Duggan, Michael John; Chaddock, John Andrew  
PATENT ASSIGNEE(S): The Speywood Laboratory Limited, UK; Microbiological  
Research Authority

SOURCE: PCT Int Appl 50 pp  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9917806	A1	19990415	WO 1998-GB3001	19981007
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, VZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2306350	AA	19990415	CA 1998-2306350	19981007
AU 9893574	A1	19990427	AU 1998-93574	19981007
AU 741456	B2	20011129		
ZA 9809138	A	19990527	ZA 1998-9138	19981007
EP 996468	A1	20000503	EP 1998-946571	19981007
EP 996468	B1	20030521		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

JP 2001518522 T2 20011016 JP 2000-514674 19981007  
PRIORITY APPLN. INFO.: GB 1997-21189 A 19971008  
WO 1998-GB3001 W 19981007

AB A class of novel agents that are able to modify nociceptive afferent function is provided. The agents may inhibit the release of

neurotransmitters from discrete populations of neurons and thereby reduce or preferably prevent the transmission of afferent pain signals from peripheral to central pain fibers. They comprise a \*\*\*galactose\*\*\*-binding \*\*\*lectin\*\*\* linked to a deriv. of a \*\*\*clostridial\*\*\* \*\*\*neurotoxin\*\*\*. The deriv. of the \*\*\*clostridial\*\*\* \*\*\*neurotoxin\*\*\* comprises the L-chain, or a fragment thereof, which includes the active proteolytic enzyme domain of the light (L) chain, linked to a mol. or domain with membrane-translocating activity. The agents may be used in or as pharmaceuticals for the treatment of pain, particularly chronic pain.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:03:17 ON 05 JUL 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 11:03:45 ON 05 JUL 2003

L1 915 S CLOSTRIDIAL NEUROTOXIN  
L2 21405 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)  
L3 150439 S LECTIN  
L4 16021 S L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)  
L5 1 S (L1 OR L2) (P) L4

=> s (l1 or l2) (p) lectin  
L6 48 (L1 OR L2) (P) LECTIN

=> s l6 (p) (conjugate or covalent?)  
L7 11 L6 (P) (CONJUGATE OR COVALENT?)

=> duplicate remove l7  
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L7  
L8 6 DUPLICATE REMOVE L7 (5 DUPLICATES REMOVED)

=> s l8 not l5  
L9 5 L8 NOT L5

=> d l9 1-5 ibib abs

L9 ANSWER 1 OF 5 MEDLINE  
ACCESSION NUMBER: 2002470902 MEDLINE  
DOCUMENT NUMBER: 22218001 PubMed ID: 12105193  
TITLE: Inhibition of release of neurotransmitters from rat dorsal root ganglia by a novel \*\*\*conjugate\*\*\* of a Clostridium \*\*\*botulinum\*\*\* \*\*\*toxin\*\*\* A endopeptidase fragment and Erythrina cristagalli \*\*\*lectin\*\*\*  
AUTHOR: Duggan Michael J; Quinn Conrad P; Chaddock John A; Purkiss John R; Alexander Frances C G; Doward Sarah; Fooks Sarah J; Friis Lorna M; Hall Yper H J; Kirby Elizabeth R; Leeds Nicola; Mouldsdaile Hilary J; Dickenson Anthony; Green G Mark; Rahman Wahida; Suzuki Rie; Shone Clifford C; Foster Keith A  
CORPORATE SOURCE: Centre for Applied Microbiology and Research, Porton Down, Salisbury, Wiltshire SP4 0JG, United Kingdom.  
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Sep 20) 277 (38) 34846-52.  
PUB. COUNTRY: Journal code: 2985121R. ISSN: 0021-9258.  
DOCUMENT TYPE: United States  
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)  
FILE SEGMENT: English  
ENTRY MONTH: Priority Journals  
ENTRY DATE: 200210  
Entered STN: 20020917  
Last Updated on STN: 20030105  
Entered Medline: 20021024

AB \*\*\*Clostridial\*\*\* \*\*\*neurotoxins\*\*\* potently and specifically inhibit neurotransmitter release in defined cell types. Here we report that a catalytically active derivative (termed LH(N)/A) of the type A neurotoxin from Clostridium botulinum has been coupled to a \*\*\*lectin\*\*\* obtained from Erythrina cristagalli to form a novel \*\*\*conjugate\*\*\*. This \*\*\*conjugate\*\*\* exhibits an in vitro selectivity for nociceptive afferents compared with the anatomically adjacent spinal neurons, as

assessed using in vitro primary neuronal culture systems to measure inhibition of release of neurotransmitters. Chemical \*\*\*conjugates\*\*\* prepared between E. cristagalli \*\*\*lectin\*\*\* and either natively sourced LH(N)/A or recombinant LH(N)/A purified from Escherichia coli are assessed, and equivalence of the recombinant material are demonstrated. Furthermore, the dependence of inhibition of neurotransmitter release on the cleavage of SNAP-25 is demonstrated through the use of an endopeptidase-deficient LH(N)/A \*\*\*conjugate\*\*\* variant. The duration of action of inhibition of neurotransmitter released by the \*\*\*conjugate\*\*\* in vitro is assessed and is comparable with that observed with Clostridium \*\*\*botulinum\*\*\* \*\*\*neurotoxin\*\*\*. Finally, in vivo electrophysiology shows that these in vitro actions have biological relevance in that sensory transmission from nociceptive afferents through the spinal cord is significantly attenuated. These data demonstrate that the potent endopeptidase activity of \*\*\*clostridial\*\*\* \*\*\*neurotoxins\*\*\* can be selectively retargeted to cells of interest and that inhibition of release of neurotransmitters from a neuronal population of therapeutic relevance to the treatment of pain can be achieved.

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:228744 CAPLUS

DOCUMENT NUMBER: 134:247267

TITLE: Clostridial neurotoxin targeted conjugates for inhibition of secretion from non-neuronal cells  
INVENTOR(S): Foster, Keith Alan; Chaddock, John Andrew; Purkiss, John Robert; Quinn, Conrad Padraig

PATENT ASSIGNEE(S): Microbiological Research Authority, UK

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021213	A2	20010329	WO 2000-GB3669	20000925
WO 2001021213	A3	20020711		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, MI, MP, NE, NI, NO, PG, PH, PR, RW, SD, SL, SN, TD, TG				
EP 1255594	A2	20020904	EP 2000-962721	20000925
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003509476	T2	20030311	JP 2001-524636	20000925

PRIORITY APPLN. INFO.:

GB 1999-22554 A 19990923

WO 2000-GB3669 W 20000925

AB A method of treatment of disease by inhibition of cellular secretory processes is provided. The method has particular application in the treatment of diseases dependent on the exocytotic activity of endocrine cells, exocrine cells, inflammatory cells, cells of the immune system, cells of the cardiovascular system, and bone cells. Agents and compns. therefor, as well as methods for manufg. these agents and compns., are provided. In a preferred embodiment a clostridial neurotoxin, substantially devoid of holotoxin binding affinity for neuronal cells of the presynaptic muscular junction, is assocd. with a targeting moiety. The targeting moiety is selected such that the clostridial toxin conjugate so formed may be directed to a non-neuronal target cell to which the conjugate may bind. Following binding, a neurotoxin component of the conjugate, which is capable of inhibition of cellular secretion, passes into the cytosol of the target cell by cellular internalization mechanisms. Thereafter, inhibition of secretion from the target cell is effected.

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:706999 CAPLUS

DOCUMENT NUMBER: 133:261538

TITLE: Use of a lectin or lectin conjugate for modulation of C-fiber activity, and therapeutic use thereof

INVENTOR(S): Foster, Keith Alan; Chaddock, John Andrew; Quinn, Conrad Padraig

PATENT ASSIGNEE(S): Microbiological Research Authority, UK  
SOURCE: PCT Int. Appl., 62 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000057897	A1	20001005	WO 2000-GB1247	20000331
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1165114	A1	20020102	EP 2000-914295	20000331
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			

PRIORITY APPLN. INFO.:

GB 1999-7429 A 19990331  
WO 2000-GB1247 W 20000331

AB The invention relates to the treatment of pain and to compds. that modulate C-fiber activity. In particular, the invention relates to the use of a \*\*\*lectin\*\*\* in the manuf. of a medicament for modulation of C-fiber neuron activity, and to \*\*\*lectin\*\*\* \*\*\*conjugates\*\*\*. The \*\*\*lectin\*\*\* \*\*\*conjugates\*\*\* comprise a \*\*\*lectin\*\*\* coupled to a peptide or protein, wherein the peptide or protein is substantially free of \*\*\*Clostridial\*\*\* \*\*\*neurotoxin\*\*\* enzyme activity. The invention also concerns methods for manufg. the \*\*\*conjugates\*\*\*. The compds. and compns. described have particular application in the treatment of diseases of which C-fiber activity is a component. Such diseases include pain, inflammation, psoriasis and other C-fiber related conditions.

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:144760 CAPLUS

DOCUMENT NUMBER: 132:175838

TITLE: Compounds inhibiting exocytosis in mucus-secreting cells or neurotransmitter release from neurons that control or direct mucus secretion for treatment of mucus hypersecretion

INVENTOR(S): Quinn, Conrad Pdraig; Foster, Keith Alan; Chaddock, John Andrew

PATENT ASSIGNEE(S): Microbiological Research Authority, UK  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000010598	A2	20000302		
WO 2000010598	A3	20000615	WO 1999-GB2806	19990825
W:	AU, CA, JP, US			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
CA 2341429	AA	20000302	CA 1999-2341429	19990825
AU 9955250	A1	20000314	AU 1999-55250	19990825
AU 756063	B2	20030102		
EP 1107794	A2	20010620	EP 1999-941754	19990825
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			

JP 2002523377 T2 20020730

PRIORITY APPLN. INFO.:

GB 1998-18548 A 19980825  
WO 1999-GB2806 W 19990825

AB A method of treating mucus hypersecretion, the causative factor in chronic obstructive pulmonary disease (COPD), asthma, and other clin. conditions involving COPD, comprises administering a compd. that inhibits exocytosis in mucus secreting cells or neurons that control or direct mucus

secretion. Also described is a compd., for use in the treatment of hypersecretion of mucus, which inhibits mucus secretion by inhibiting mucus secretion by mucus secreting cells, and/or inhibiting neurotransmitter release from neuronal cells controlling or directing mucus secretion.

L9 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 2002:520037 BIOSIS  
DOCUMENT NUMBER: PREV200200520037  
TITLE: Characterisation of a novel \*\*\*conjugate\*\*\* of a  
\*\*\*botulinum\*\*\* \*\*\*neurotoxin\*\*\* A endopeptidase  
fragment and E. cristagalli \*\*\*lectin\*\*\*  
AUTHOR(S): Ling, R. J. (1); Fretwell, R.; Alexander, F.; Fooks, S.;  
Leeds, N.; Jameson, K.; Hall, Y.; Kirby, E.; Chaddock, J.;  
Shone, C.  
CORPORATE SOURCE: (1) Centre for Applied Microbiology and Research, Porton  
Down, Salisbury, Wiltshire, SP4 0JG UK  
SOURCE: Naunyn-Schmiedeberg's Archives of Pharmacology, (June,  
2002) Vol. 365, No. Supplement 2, pp. R28. print.  
Meeting Info.: International Conference on Basic and  
Therapeutic Aspects of Botulinum and Tetanus Toxins  
Hannover, Germany June 08-12, 2002  
ISSN: 0028-1298.  
DOCUMENT TYPE: Conference  
LANGUAGE: English

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
11:03:45 ON 05 JUL 2003

L1 915 S CLOSTRIDIAL NEUROTOXIN  
L2 21405 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)  
L3 150439 S LECTIN  
L4 16021 S L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)  
L5 1 S (L1 OR L2) (P) L4  
L6 48 S (L1 OR L2) (P) LECTIN  
L7 11 S L6 (P) (CONJUGATE OR COVALENT?)  
L8 6 DUPLICATE REMOVE L7 (5 DUPLICATES REMOVED)  
L9 5 S L8 NOT L5

=> s erythrina or (glycine max) or (arachis hypogaea) or (bandeirea simplicifolia)  
L10 82568 ERYTHRINA OR (GLYCINE MAX) OR (ARACHIS HYPOGAEA) OR (BANDEIREA  
SIMPLICIFOLIA)

=> s l10 (p) lectin  
L11 3222 L10 (P) LECTIN

=> s light chain  
L12 94505 LIGHT CHAIN

=> s translocation domain  
L13 487 TRANSLOCATION DOMAIN

=> s l12 (p) l13 (p) (l1 or l2)  
L14 4 L12 (P) L13 (P) (L1 OR L2)

=> s l14 (p) (l3 or l6 or l14)  
L15 4 L14 (P) (L3 OR L6 OR L14)

=> duplicate remove l15  
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L15  
L16 1 DUPLICATE REMOVE L15 (3 DUPLICATES REMOVED)

=> s l16 not l5  
L17 1 L16 NOT L5

=> d l17 1 ibib abs

L17 ANSWER 1 OF 1 MEDLINE  
ACCESSION NUMBER: 1998035837 MEDLINE  
DOCUMENT NUMBER: 98035837 PubMed ID: 9367816  
TITLE: Recombinant expression and purification of the botulinum

AUTHOR: neurotoxin type A translocation domain.  
 Lacy D B; Ste R C  
 CORPORATE SOURCE: Department of Chemistry, University of California,  
 Berkeley, California 94720, USA.  
 SOURCE: PROTEIN EXPRESSION AND PURIFICATION, (1997 Nov) 11 (2)  
 195-200.  
 Journal code: 9101496. ISSN: 1046-5928.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199712  
 ENTRY DATE: Entered STN: 19980116  
 Last Updated on STN: 19980116  
 Entered Medline: 19971224

AB \*\*\*Botulinum\*\*\* \*\*\*neurotoxin\*\*\* type A in its fully activated  
 form exists as a dichain protein consisting of a 50-kDa \*\*\*light\*\*\*  
 \*\*\*chain\*\*\* and a 100-kDa heavy chain linked by a disulfide bond (B. R.  
 DasGupta and H. Sugiyama, Biochem. Biophys. Res. Commun. 48, 108-112,  
 1972). The protein can be further subdivided into three functional  
 domains: a catalytic domain corresponding to the \*\*\*light\*\*\*  
 \*\*\*chain\*\*\*, a \*\*\*translocation\*\*\* \*\*\*domain\*\*\* associated with  
 the N-terminal half of the heavy chain, and a binding domain as the  
 C-terminal half. To facilitate further structural and functional studies  
 on the mechanism of toxin translocation, we report here the recombinant  
 Escherichia coli expression and purification of the isolated  
 \*\*\*translocation\*\*\* \*\*\*domain\*\*\* with a yield of 1 mg pure protein  
 per 1 g cell paste. Circular dichroism, enzyme-linked immunosorbent  
 assays, and preliminary crystallization experiments verify proper protein  
 folding. This reagent should serve as a key tool in elucidating the  
 mechanism of translocation and in determining how the catalytic domain, a  
 large 50-kDa metalloprotease, is delivered to the cytosol.  
 Copyright 1997 Academic Press.

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(FILE 'HOME' ENTERED AT 11:03:17 ON 05 JUL 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
 11:03:45 ON 05 JUL 2003

L1 915 S CLOSTRIDIAL NEUROTOXIN  
 L2 21405 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)  
 L3 150439 S LECTIN  
 L4 16021 S L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)  
 L5 1 S (L1 OR L2) (P) L4  
 L6 48 S (L1 OR L2) (P) LECTIN  
 L7 11 S L6 (P) (CONJUGATE OR COVALENT?)  
 L8 6 DUPLICATE REMOVE L7 (5 DUPLICATES REMOVED)  
 L9 5 S L8 NOT L5  
 L10 82568 S ERYTHRINA OR (GLYCINE MAX) OR (ARACHIS HYPOGAEA) OR (BANDEIRE)  
 L11 3222 S L10 (P) LECTIN  
 L12 94505 S LIGHT CHAIN  
 L13 487 S TRANSLOCATION DOMAIN  
 L14 4 S L12 (P) L13 (P) (L1 OR L2)  
 L15 4 S L14 (P) (L3 OR L6 OR L14)  
 L16 1 DUPLICATE REMOVE L15 (3 DUPLICATES REMOVED)  
 L17 1 S L16 NOT L5

=> s duggan michael/au

L18 3 DUGGAN MICHAEL/AU

=> s chaddock john/au

L19 0 CHADDOCK JOHN/AU

=> s chaddock j/au

L20 2 CHADDOCK J/AU

=> s (l18 or l20) and l3

L21 2 (L18 OR L20) AND L3

=> duplicate remove l21

DUPLICATE PREFERENCE IS 'BIOSIS, SCISEARCH'  
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
 PROCESSING COMPLETED FOR L21

L22 1 DUPLICATE REMOVE L21 (1 DUPLICATE REMOVED)



=> s 122 not 15  
L23 1 L22 NOT L5

=> d 123 1 ibib abs

L23 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 2002:520037 BIOSIS  
DOCUMENT NUMBER: PREV200200520037  
TITLE: Characterisation of a novel conjugate of a botulinum  
neurotoxin A endopeptidase fragment and E. cristagalli  
\*\*\*lectin\*\*\*  
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11:03:45 ON 05 JUL 2003

L1 915 S CLOSTRIDIAL NEUROTOXIN  
L2 21405 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)  
L3 150439 S LECTIN  
L4 16021 S L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)  
L5 1 S (L1 OR L2) (P) L4  
L6 48 S (L1 OR L2) (P) LECTIN  
L7 11 S L6 (P) (CONJUGATE OR COVALENT?)  
L8 6 DUPLICATE REMOVE L7 (5 DUPLICATES REMOVED)  
L9 5 S L8 NOT L5  
L10 82568 S ERYTHRINA OR (GLYCINE MAX) OR (ARACHIS HYPOGAEA) OR (BANDEIRE)  
L11 3222 S L10 (P) LECTIN  
L12 94505 S LIGHT CHAIN  
L13 487 S TRANSLOCATION DOMAIN  
L14 4 S L12 (P) L13 (P) (L1 OR L2)  
L15 4 S L14 (P) (L3 OR L6 OR L11)  
L16 1 DUPLICATE REMOVE L15 (3 DUPLICATES REMOVED)  
L17 1 S L16 NOT L5  
L18 3 S DUGGAN MICHAEL/AU  
L19 0 S CHADDOCK JOHN/AU  
L20 2 S CHADDOCK J/AU  
L21 2 S (L18 OR L20) AND L3  
L22 1 DUPLICATE REMOVE L21 (1 DUPLICATE REMOVED)  
L23 1 S L22 NOT L5

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SINCE FILE	TOTAL
ENTRY	SESSION
77.93	78.14

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.60	-2.60

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